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United States Department of Agriculture
Natural Resources Conservation Service

Idaho Water Supply Outlook Report April 1, 2008

Measuring winter precipitation can be a challenge. On March 11th NRCS technicians John Wirt (left) and Chad Gipson (right) visited Bear Basin SNOTEL near McCall; part of their mission was to clear this capped over precipitation gage. Normally the gage looks more like a stove pipe that is open on the top. When working correctly it catches precipitation as it falls inside the gage. In the winter frozen precipitation is melted by the propylene glycol antifreeze solution inside the gage, however when the falling snow is sticky it can begin to build up around the opening and on the fins of the wind screen that circles the top of the gage; eventually this covers the opening of the gage. The Bear Basin gage, shown here, started



plugging in early February. While the gage is capped NRCS hydrologists edit the daily precipitation values using the snow pillow data. Clearing the cap can be done by trimming the sides of the cap with a shovel as the filmstrip below illustrates. As the cap is trimmed it slides down and the sides of the gage act as a "cookie cutter" capturing much of the lost precipitation inside the gage.



Basin Outlook Reports and Federal - State - Private Cooperative Snow Surveys

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Natural Resources Conservation S Snow Surveys 9173 West Barnes Drive, Suite C Boise, Idaho 83709-1574 (208) 378-5740 nternet Web Address http://www.id.nrcs.usda.gov/snow/

How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snow courses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

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IDAHO WATER SUPPLY OUTLOOK REPORT

April 1, 2008

SUMMARY

Mother Nature finally delivered the much needed punch of above average precipitation where it was needed the most – the Upper Snake River basin. The Upper Snake basin above Palisades Reservoir in western Wyoming led the region in March precipitation with 140% of average. Above average precipitation, totaling 120-135%, fell in the Panhandle Region and Clearwater basins and was enough moisture to increase snow water equivalent amounts to record high amounts at a handful of sites. The Henrys Fork and Teton basins received 116% of average precipitation while the rest of the state received 60-100%.

Warm temperatures in early March allowed the snow in the lowest elevations to begin melting across the state producing slight increases in streamflow, but no major runoff events have occurred yet this year; not even in northern Idaho where a warm Chinook usually occurs that removes some of the low snow. Temperatures across the Pacific Northwest and Northern Rockies in Idaho and Wyoming in the second half of March were 6-10 degrees F below normal. Temperatures the last week of March across the Pacific Northwest were the coldest since 1975. The return to below normal temperatures in the second half of March halted the melting and allowed precipitation to continue falling as snow across the state, thus adding to the already high snow levels in northern Idaho. Mid-elevation snow sites along Idaho's western border are well above average, ripe and ready to melt with the onset of warmer temperatures in April. Higher elevation snowpacks are several weeks to a month away from melting. Snowpack percentages vary across the state with the highest percentages in the lower drainages of Rathdrum and Palouse basins at 165% of average. Snowpacks in the major basins are: 130-145% of average in Coeur d'Alene, Spokane, Lochsa, Camas and Owyhee basins. Basins that are 120-125% are: St. Joe, North Fork Clearwater, Selway, Little Salmon, North Fork Payette, Mores, Pacific (WY) and Willow basins. The lowest snowpacks are 90-99% of average in the Middle and North Fork Boise, Big Wood above Hailey, Little Wood, Big Lost, Hoback (WY), and most of Bear River tributaries.

The highest streamflow forecasts are in the Panhandle, Clearwater and Weiser basins at 115-125% of average. The rest of the region is forecast at 90-115% of average with the lowest forecasts in the Bear River at 58% of average. Reservoir storage varies depending on use, and carryover storage ranging from 70-110% of average for the ones in better shape to 30-60% of average for Magic, Little Wood, Blackfoot, Salmon Falls, Owyhee and Bear Lake. This year's runoff should fill most reservoirs or provide adequate water supplies.

The wild card in this year's water supply picture that has already caused roof failures, sore backs, broken shovels and spent snow removal budgets is the abundant and record high low elevation snow. Colder than normal temperatures in March preserved the snowpack but with the arrival of warm temperatures in early April, expect a much bigger jump in streamflows. We are all waiting to see how and when this card gets played; the later it comes off the greater the potential for warm or even hot temperatures to melt the abundant shallow snowpack. Record high temperatures in Boise in early April are near 80 degrees F and would rapidly melt the mid-elevation snow and produce rapid increases on unregulated streams. In recent years, we have seen greater climatic variability such as record high daytime temperatures in May, extended periods of non-freezing temperatures in early June, which allows the snow to melt through the night and abundant precipitation in May 2005 that changed the water supply outlook overnight. Normal climatic conditions are easy to manage and plan for, but extreme swings in temperature and precipitation during the melt season makes it difficult and challenging to manage water supplies.

SNOWPACK

Near average or better April 1 snowpacks were needed this year to provide adequate streamflow for Idaho's numerous water users and we got them! Cold temperatures allowed precipitation to fall as snow all winter with very little, if any rain falling. Overall, Idaho's snowpacks range from 90% of average in a few basins in central and southern Idaho to 165% in Hayden Lake and Palouse basins. The last time all of Idaho had a near average snowpack or better was April 2006. However, in 2006 the snow levels were exactly opposite from this year with snowpacks ranging from average in the Panhandle and Clearwater basin to 150% in Oakley basin. This year, there is a lot more snow in the lower elevation but higher elevation snowpacks from the Salmon basin south have not exceeded the April 2006 snow levels. It is the higher elevation snow that provides and sustains the river's flow; the low snow will melt quickly and not last long. Some of the April 1 record high snow levels are: Humboldt SNOTEL in the Coeur d'Alene basin at 4250 feet is the highest since records start in 1961 along with Fourth of July Summit which broke the previous record high amount of 16.4 inches by 3.2 inches; Moscow Mountain, 4410 feet, 4th highest since 1957; Lake Fork, near McCall at 5290 feet, 29th highest since 1936; and Bogus Basin Road, 5540 feet, 2nd highest since 1955.

PRECIPITATION

This winter's storm track brought much needed moisture to every western state except in the southern half of Arizona and New Mexico. The snowpack will help ease the accumulated drought deficit across the West. March brought 135% of average precipitation into the Clearwater basin but the Big Lost and Little Wood basins missed out again and only received 60% of the normal March allotment. Panhandle Region precipitation was 122% of average in March providing enough moisture to set new record high snow water equivalent amounts. Water year to date precipitation amounts range from average in the Bear River basin to 117% in the Weiser basin.

RESERVOIRS

Reservoir storage levels vary across the state depending on the type of facility and carryover storage from last year. Below normal streamflow this winter meant little change in reservoir storage levels during the winter and as a result, outflows have been minimal. Most reservoirs are following their storage and release operating curves. Reservoirs that are 85-110% of average are: Pend Oreille Lake, Dworshak, the Payette and Boise reservoir systems, Mackay, Henrys Lake, Grassy Lake, Island Park, Bronwlee, Oakley and Montpelier. Palisades and Jackson Lake have a combined storage of 69% of average; Salmon Falls is 51% of average; Little Wood and Owyhee are 55% of average. Bear Lake is 43% of average and Magic is 27% of average and waiting for Camas Creek runoff to start. Water managers will be watching the April temperatures and snow melt rates as inflows pick up to monitor storage levels and if releases are required to reduce flood risks while ensuring refill.

Note: NRCS reports reservoir information in terms of usable volumes, which includes both active, inactive and in some cases, dead storage. Other operators may report reservoir contents in different terms. For additional information, see the reservoir definitions in this report.

STREAMFLOW

No Chinooks occurred in this winter. Instead, cool temperatures in February and March kept Idaho's winter precipitation frozen. As a result of all the water being locked up in the snowpack, winter streamflows have been below normal with minimal inflows to reservoirs. A slight warming in early March produced small rises in the Weiser and Owyhee rivers, but much more is ready to come. With temperatures inching their way warmer and warmer, the low snow is ready to melt while the higher snow still needs a few weeks to finish ripening. Reports from snow surveyors are coming in that some streams are still frozen over in the Owyhee basin and Big Lost basin. One surveyor said, "it looks more like January out there." Another surveyor's snowmobile got stuck in an iced over stream in the Lemhi basin. The stream had thawed in early March and then refroze. The new snow and ice collapsed under

the weight of the snow machine and then they had to pull the sled from the three foot deep stream and up the eight foot high snow bank. They made it home wet, damp and cold and returned a few days later to get the sled. Unlike last year, no ATVs were used to measure this year's snow, and many had to park and unload in April where they typically park in the middle of winter.

Even the Wall Street Journal called to learn more about Idaho's record low elevation snowpack, near average higher elevation snowpack and impacts of this moisture on the short and long term drought the state has been in. The average snowpack and projected water supply in the Upper Snake basin has reduced the potential irrigation curtailment concerns with near normal runoff projected in the Upper Snake, but long term solutions are still in the works. With streams forecast at near average or better, water supplies should be adequate for irrigators, provide excellent boating and river running opportunities, good hydropower and water for fish and wildlife. Hopefully, the snow will put a damper or at least delay wildfires this summer after last year's extreme fire season and provide better reservoir carryover storage next year.

Note: Forecasts published in this report are NRCS guidance forecasts. NRCS is using SNOTEL data in a timely manner to provide timely streamflow forecast for users. Official jointly coordinated and published forecasts by the USDA Natural Resources Conservation Service and the US Department of Commerce, NOAA, National Weather Service are available at the joint west-wide Water Supply Outlook for the Western US at http://www.wcc.nrcs.usda.gov/wsf/westwide.html.

RECREATION

After one of the best powder skiing and winter recreation seasons in years due to cold temperatures and abundant storms, river runners and water users are also set for an excellent runoff year. The near average or better snowpacks across the state will provide excellent whitewater this year. Get ready as the ripe snowpacks are 135% of average in the lower elevation drainages of Owyhee River and Camas Creek and should start flowing with the warm temperatures that are forecast in early April. The Bruneau River, forecast at near average will also have a good season. The Middle Fork Salmon River is forecast at 115% of average while the main Salmon River is forecast at 106%. Projected volumes are less than in 2006 when the high elevation snowpack was better, but flows could exceed 6 feet on the Middle Fork gage and 70,000 cfs at White Bird. The Lochsa and Selway basins are packed with snow at 128% of average and will provide high flows and good streamflow levels into mid-summer. River watchers and water managers can expect multiple streamflow peaks this year due to the abundant low elevation snow. Caution should also be used during high flows and when the streams are on the rising limb of the hydrograph; this is when the streams may erode banks and carry logs and debris down the river. There is concern about additional debris and logs in the river due to the extreme fires of 2007 in Idaho. Have fun, but be careful and play it safe. Hikers and mountain bikers will have to start a little later than last year due to much better snow, but the additional moisture will produce a crop of wildflowers worth the wait.

2008 WESTERN SNOW CONFERENCE

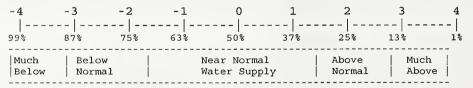
The 76th annual Western Snow Conference will be in Hood River, Oregon April 14-17. The theme of this year's conference is "Working Across Boundaries". A short course workshop titled "Understanding/Using Mountain Soil Moisture Data" will be held on Monday, April 14, and will provide a forum of continued education for the relationship between soil and water. Additional information on conference is available on the Western Snow Conference web page: http://www.westernsnowconference.org/

The Surface Water Supply Index (SWSI) is a predictive indicator of surface water availability within a watershed for the spring and summer water use season. The index is calculated by combining pre-runoff reservoir storage (carryover) with forecasts of spring and summer streamflow. SWSI values are scaled from +4.0 (abundant supply) to -4.0 (extremely dry), with a value of zero indicating a median water supply as compared to historical occurrences. The SWSI analysis period is from 1971 to present.

SWSI values provide a more comprehensive outlook of water availability by combining streamflow forecasts and reservoir storage where appropriate. The SWSI index allows comparison of water availability between basins for drought or flood severity analysis. Threshold SWSI values have been determined for some basins to indicate the potential for agricultural irrigation water shortages.

| BASIN or REGION | SWSI Value | Most Recent Year With Similar SWSI Value | Agricultural Water Supply Shortage May Occur When SWSI is Less Than |
|-----------------|---------------|---------------------------------------------|------------------------------------------------------------------------------|
| PANHANDLE | 1.6 | 2000 | NA |
| CLEARWATER | 2.3 | 2002 | NA |
| SALMON | 0.8 | 1993 | NA |
| WEISER | 0.8 | 1997 | NA |
| PAYETTE | 0.8 | 1993 | NA |
| BOISE | 0.3 | 2000 | -2.1 |
| BIG WOOD | -1.4 | 2005 | -0.7 |
| LITTLE WOOD | 0.3 | 2005 | -2.0 |
| BIG LOST | -0.1 | 1993/1985 | -0.2 |
| LITTLE LOST | -1.0 | 2005 | 0.3 |
| HENRYS FORK | -0.8 | 2000 | -3.5 |
| SNAKE (HEISE) | 0.3 | 2006 | -1.4 |
| OAKLEŶ | -0.3 | 2007 | -1.2 |
| SALMON FALLS | -1.0 | 2007 | -1.6 |
| BRUNEAU | 0.5 | 1999 | NA |
| BEAR RIVER | -2.9 | 1993/1994 | -3.4 |

SWSI SCALE, PERCENT CHANCE OF EXCEEDANCE, AND INTERPRETATION

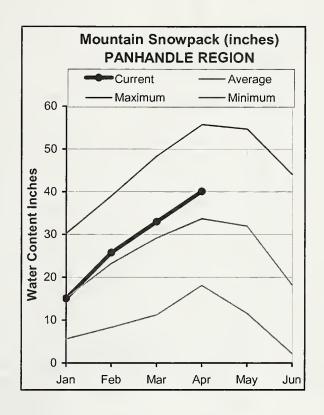


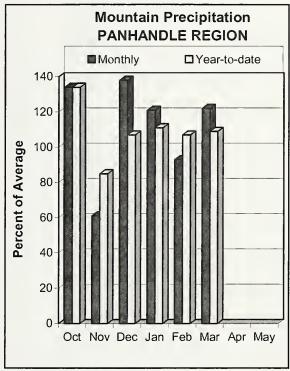
NA = Not Applicable

Note: The Percent Chance of Exceedance is an indicator of how often a range of SWSI values might be expected to occur. Each SWSI unit represents about 12% of the historical occurrences. As an example of interpreting the above scale, the SWSI can be expected to be greater than -3.0, 87% of the time and less than -3.0, 13% of the time. Half the time, the SWSI will be below and half the time above a value of zero. The interval between -1.5 and +1.5 described as "Near Normal Water Supply," represents three SWSI units and would be expected to occur about one-third (36%) of the time.

PANHANDLE REGION APRIL 1, 2008







WATER SUPPLY OUTLOOK

Call Guinness! The Panhandle region has record breaking low and mid-elevation snow. Although it is spring on the calendar, winter weather continues. Unlike most years the Panhandle saw no Chinook or rain storm this year to drive midelevation melt. The region experienced 122% of its normal March precipitation and that precipitation fell mainly as snow at all our snow measuring sites. Humboldt Gulch SNOTEL (4,200 ft) near Wallace still has over two feet of snow water content; it's the greatest snowpack in the 48 years of measurement and more than twice its average amount. Fourth of July Summit snow course (3,200 ft), located 1,000 feet lower than Humboldt Gulch, is also at an all-time record amount for its 49 year period; it has almost 20 inches of snow water, greater than three times the average amount and more than 3 inches greater than its previous maximum in 1964. Bumper lower elevation snow is not limited to the Coeur d'Alene Basin, it also exists to the north and east. Near Priest Lake, Benton Meadow snow course (2,300 ft) with 10.6 inches of snow water has its second greatest amount in 72 years of measurement, 1997 was a hair higher. Across the border in Montana, Baree Trail snow course (3,800 ft) in the Kootenai basin also scores a record out of 44 years of measurement. Combining sites in all elevations zones, the April 1 snowpack ranges from 104% of average in the Moyie, 121% in the Priest River basin, 159% in Rathdrum Creek to 169% in the Palouse basin. Region-wide these snowpacks are 114% of the average seasonal peak amount. Coeur d'Alene and Priest lakes are both storing below average amounts as they wait for snowmelt; once runoff starts any deficits will be erased by above average streamflow volumes across the region. Forecasts range from about 102% of average for the Kootenai and Moyie rivers to 126% for the St. Joe River. The Spokane near Post Falls is forecast at 119% of average, while the Priest River will flow at 115%. Pend Oreille Lake storage is above average at 55% of capacity, and inflow is forecast at 108%. With record amounts of low to mid-elevation snow surviving into April, so too does the risk of streams overtopping their banks this spring; especially if the weather warms to above average temperatures and nighttime low temperatures fail to reach the freezing point. April or May showers could also produce rapid melting from these snow laden zones.

PANHANDLE REGION

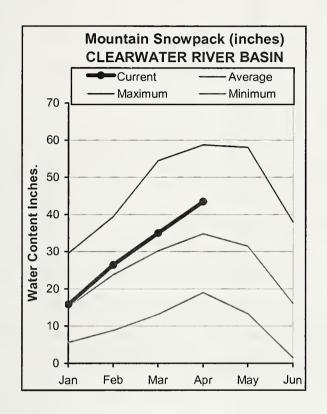
| | | | ========= |
|-----------------|------------------------------------------------------|--------------------|-------------------------------|
| === Wette | onditions ===== | er ====>> | |
| 30% (1000AF) | Exceeding * ===== Probable) (% AVG.) | 10% (1000AF) | 30-Yr Avg (1000AF) |
| 7554 8690 | 103 103 | 8179 9352 | 7040 8120 |
| 450 465 | 103 102 | 505 520 | 405 420 |
| 139 147 | 106 106 | 151 161 | 123 129 |
| 132 139 | 102 102 | 142 150 | 123 129 |
| 12250 13588 | 107 107 | 12580 14003 | 11300 12500 |
| 13700 15000 | 106 107 | 14000 15400 | 12700 13900 |
| 967 1030 | 110 110 | 1125 1180 | 815 870 |
| 912 959 | 115 115 | 1003 1052 | 740 780 |
| 1484 1570 | 125 125 | 1578 1660 | 1140 1200 |
| 3194 3320 | 118 118 | 3465 3600 | 2550 2650 |
| 3549 3812 | 117 116 | 3886 4169 | 2850 3070 |
| NHANDLE REC | PANF Watershed Snowpa | GION | |
| Numbe Of | rshed | er This | Year as % of |
| Data Si | ======================================= | | Yr Average |
| | enai ab Bonners B | 120 | 111 |
| 10 | e River | 94 | 104 |
| 5 | st River | 145 | 121 |
| 99 | Oreille River | 152 | 112 |
| 2 | irum Creek | 211 | 159 |
| 0 | en Lake | 0 | 0 |
| 10 | r d'Alene River | 173 | 138 |
| 6 | Joe River | 159 | 124 |
| 14 | ane River | 175 | 136 |
| 2 | use River | 402 | 169 |
| | en Lake r d'Alene River Joe River ane River | 0 10 6 14 | 0 0 10 173 6 159 14 175 |

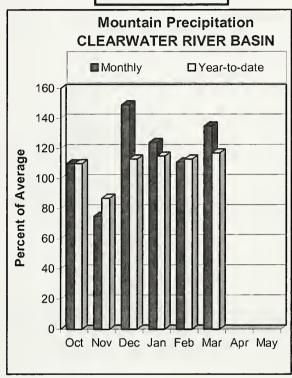
 $[\]star$ 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

CLEARWATER RIVER BASIN APRIL 1, 2008







WATER SUPPLY OUTLOOK

March precipitation at 135% of normal was the fourth consecutive month of above average precipitation in the mountains of the Clearwater basin. Since October 1 the basin has seen 117% of average precipitation. This type of winter weather without many breaks is notorious for producing plugged precipitation gages like the one on this month's cover. Three SNOTEL sites including Cool Creek, Crater Meadows and Hemlock Butte have been plugged since late January. In winter these sites can only be accessed by helicopter, but our safety policies require clear skies to fly. Stormy weather prevented the February flight; this month we'll make another effort to unplug the gages and manually measure the snowpack to ground truth the snow pillow data. The snowpack is 125-130% of average across the Clearwater basin, far above its normal seasonal peak. As described last month the midelevation snow measuring sites between 3,000-4,600 feet continue to hold plentiful snow at 150-175% of average, this isn't a record though as 8 out of the last 48 years had had more. The most recent year with more snow was 1997. The snowpack across all elevation bands resembles 2002, which had a good runoff and average spring precipitation; that year the Selway River peaked at 25,900 cfs, the Lochsa River topped at 20,900 cfs and the North fork Clearwater River hit 23,600 cfs. This year's good snow is sure to provide above average summer streamflow. Forecasts are for about 119% for all points across the region. Dworshak Reservoir is currently storing an average amount at 62% of capacity. Although it's impossible to predict the magnitude of peak flows since they depend not only on snowmelt but also spring precipitation and temperatures, it is certain that they will be big and summer volumes will provide an extended whitewater season.

CLEARWATER RIVER BASIN Streamflow Forecasts - April 1, 2008

| | | <<==== | == Drier ==== | === F1 | uture Co | onditions == | | Wetter | | >> | | |
|----------------------------------|--------------------------------|------------------------------|---------------------------------|----------------------|--------------|------------------------------------|-------|------------------------|--------------|--------|--------|----------------------|
| Forecast Point | Forecast Period | ====== 90% (1000AF | 70%) (1000AF) | 509 | | Exceeding * = Probable) (% AVG.) | | 30% 1000AF) | 10% (1000 | | | r Avg. 000AF) |
| Selway R nr Lowell | APR-JUL APR-SEP | 2200 2290 | 2350 2450 | | 2460 2570 | 119 118 | ==== | 2570 2690 | 272 285 | - | | 2060 2170 |
| Lochsa R nr Lowell | APR-JUL APR-SEP | 1610 1670 | 1740 1810 | | 1820 1900 | 119 118 | | 1900 1990 | 203 213 | - | | 1530 1610 |
| Dworshak Reservoir Inflow | APR-JUL APR-SEP | 2540 2670 | 2950 3110 | | 3140 3310 | 119 118 | | 3330 3510 | 374 395 | - | | 2640 2800 |
| Clearwater R at Orofino | APR-JUL APR-SEP | 4610 4820 | 5230 5470 | | 5510 5770 | 119 118 | | 5790 6070 | 641 672 | - | | 4650 4900 |
| Clearwater R at Spalding | APR-JUL APR-SEP | 7410 7760 | 8400 8810 | | 8850 9290 | 119 118 | | 9300 9770 | 1030 1080 | - | | 7430 7850 |
| CLEARWAT Reservoir Storage (1 | ER RIVER BASI 000 AF) - End | | | | | CLE Watershed Sr | | ER RIVER k Analys | | | L, 200 | 8 |
| Reservoir | Usable Capacity | *** Usal This Year | ble Storage * Last Year # | *** Avg | Wate: | rshed | | Numbe of Data Si | _ | This Y | | s % of werage |
| DWORSHAK | 3468.0 | 2143.2 | 2803.4 220 | ==== : 05.4 | Nortl | n Fork Cleary | water | 9 | ===== | 158 | 1 | .23 |

Lochsa River

Selway River

Clearwater Basin Total

129

125

125

172 175

169

18

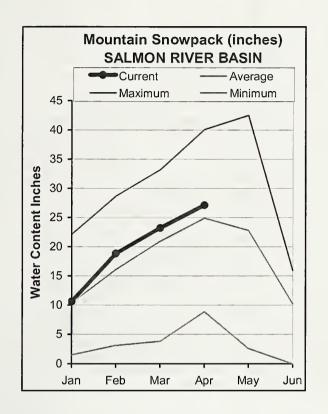
^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

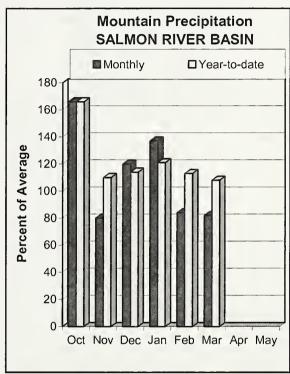
^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

^{(2) -} The value is natural flow - actual flow may be affected by upstream water management.

SALMON RIVER BASIN APRIL 1, 2008







WATER SUPPLY OUTLOOK

March brought only 82% of average precipitation to the Salmon Basin, but as winter winds down the basin's snowpack is in ideal shape at 108% of average. This snow puts the basin over its average seasonal peak amount for the winter. The Little Salmon basin has the best snowpack at 120% of average, while snowpacks in the Salmon River above Salmon, Middle Fork Salmon, South Fork Salmon and Lemhi basins are 102-104% of average. Snowpacks are one and a half times that of last year which should forestall this summer's wildfire season; good news for communities that battled smoke and flames last year. Summer streamflow volumes are forecast at 100% of average for the Lemhi River; 103% for the Salmon River at Salmon; 106% for the Salmon River at White Bird; 116% for the Middle Fork Salmon River. At the end of February, the snowpack looked similar to 2006, but after 82% of average precipitation in March, snowpacks are now more similar to 1995. Peak flows in 1995 were less than 2006. For example, the 1995 peak on the main stem Salmon River at Whitebird reached 70,500 cfs and 93,000 cfs in 2006. It's impossible to predict the magnitude of peak flows since they depend on the combination of snowmelt, precipitation and temperatures but with this much snow they will be high! River runners can expect a good floating season thanks to above average snow.

______ SALMON RIVER BASIN Streamflow Forecasts - April 1, 2008

| | | | ======== | | | | | |
|-----------------------------------------|---------------|-----------|--------------|---------------|---------------|-----------------------------------------|-----------|--------------|
| | | <<===== | Drier ==== | == Future Co | onditions == | ===== Wetter | ====>> | |
| | | | | | | | | |
| Forecast Point | Forecast | | | | | | | |
| | Period | 90% | 70% | 50% (Most | | 30% | 10% | 30-Yr Avg. |
| | | (1000AF) | (1000AF) | (1000AF) | (% AVG.) | (1000AF) | (1000AF) | (1000AF) |
| Galary D of Galary | APR-JUL | | 010 | | 102 | 050 | 1110 | 055 |
| Salmon R at Salmon | | 650 | 810 | 880 | 103 | 950 | 1110 | 855 |
| | APR-SEP | 750 | 935 | 1020 | 102 | 1100 | 1290 | 1000 |
| Jembi R nr Lembi | APR-JUL | 63 | 76 | l 86 | 100 | 97 | 113 | 86 |
| | APR-SEP | 78 | 94 | 105 | 100 | 117 | 136 | 105 |
| | THE BLL | ,0 | 54 | 105 | 100 | 11, | 150 | 103 |
| MF Salmon R at MF Lodge | APR-JUL | 725 | 835 | 910 | 116 | 985 | 1100 | 785 |
| | APR-SEP | 800 | 925 | 1010 | 115 | 1100 | 1220 | 875 |
| | | | | | | | | |
| Salmon R at White Bird | APR-JUL | 4820 | 5770 | 6200 | 106 | 6630 | 7580 | 5850 |
| | APR-SEP | 5350 | 6420 | 6900 | 107 | 7380 | 8450 | 6480 |
| | | | | | | | | |
| OMIAS | N RIVER BASIN | | ======= | | | SALMON RIVER H | RACTN | |
| Reservoir Storage (| | of March | | | | nowpack Analys | | 1. 2008 |
| ======================================= | | | | ' ======== | | ======================================= | | |
| | Usable | *** Usab] | le Storage * | ** | | Numbe | er This | Year as % of |
| Reservoir | Capacity | This | Last | Water | rshed | of | | |
| | İ | Year | Year A | vg | | Data Si | ites Last | Yr Average |
| | | | | Salmo | on River ab s | Salmon 11 | 143 | 104 |

| * 90%, 70%, 30%, 8 | and 10% chances of exceeding are the probab | ilities that the actual flow will | exceed the volumes in the table. |
|--------------------|---------------------------------------------|-----------------------------------|----------------------------------|

Lemhi River

Middle Fork Salmon River

South Fork Salmon River

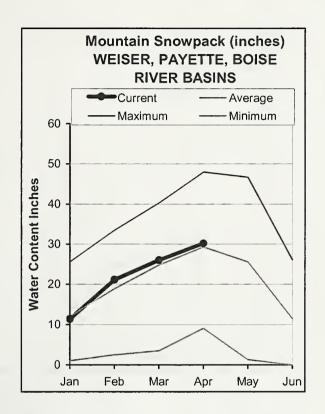
Little Salmon River

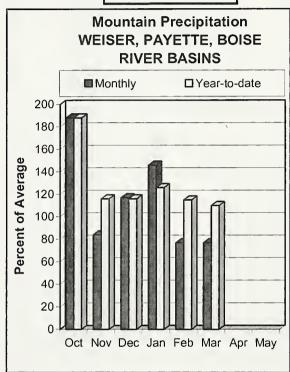
Salmon Basin Total

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

WEISER, PAYETTE, BOISE RIVER BASINS APRIL 1, 2008







WATER SUPPLY OUTLOOK

As of April 1, the Weiser, Payette and Boise basin snowpacks are all near 115% of average. March may have seemed wet, but the precipitation for the month was below average: 64% in the Weiser; 85% in the Boise Basin and 74% in the Payette. The good news is that the mountain snowpacks have exceeded or at their normal seasonal peak amounts and the lower elevations needed a break. Last year, the mountain snowpacks began melting unusually early in March and were only near 60% average by April 1. Low snow last year combined with a hot and dry summer put a lot of pressure on receiving ample snow this year. Now the streamflow peaks will depend on how the mountain snow melts off; rapid warming temperatures will accelerate runoff, while gradual warming temperatures will regulate the streamflow. The low elevation snow is melting and reducing the amount of snow in the basin, but warm air temperatures and precipitation could bring the remaining snow off quickly. The streamflow forecasts, which do not include the anomalous low-elevation snow, call for above average April through July volumes; 122% for the Weiser River, 110% for the main stem Payette River and 103% for the Boise River near Boise. Currently, the Boise reservoir system is 57% of capacity and the Payette system is 63% full. As for seasonal water supplies, the above average streamflow will provide adequate irrigation supplies and a prolonged boating and river recreation season.

WEISER, PAYETTE, BOISE RIVER BASINS Streamflow Forecasts - April 1, 2008

| | | <<===== | Drier ==== | == Future Co | nditions == | ==== Wetter | ` =====>> | |
|---------------------------------|----------|-------------------|-----------------|-------------------------|-------------|-----------------|-----------------|------------------------|
| Forecast Point | Forecast | | | | | ×======== | ======= | |
| | Period | 90% (1000AF) | 70% (1000AF) | 50% (Most (1000AF) | (% AVG.) | 30% (1000AF) | 10% (1000AF) | 30-Yr Avg. (1000AF) |
| Weiser R nr Weiser | APR-SEP | 315 | 445 | 510 | 121 | 580 | 755 | 420 |
| SF Payette R at Lowman | APR-JUL | 390 | 430 | 460 | 105 | 490 | 535 | 440 |
| | APR-SEP | 440 | 490 | 520 | 105 | 555 | 605 | 495 |
| Deadwood Reservoir Inflow | APR-JUL | 119 | 138 | 147 | 110 | 156 | 175 | 134 |
| | APR-SEP | 126 | 148 | 158 | 111 | 168 | 190 | 142 |
| ake Fork Payette R nr McCall | APR-JUL | 80 | 89 | l 95 | 112 | 101 | 111 | 85 |
| • | APR-SEP | 83 | 92 | 99 | 111 | 106 | 116 | 89 |
| NF Payette R at Cascade | APR-JUL | 460 | 550 | l 590 | 114 | 630 | 720 | 520 |
| • | APR-SEP | 470 | 565 | 610 | 113 | 655 | 750 | 540 |
| NF Payette R nr Banks | APR-JUL | 615 | 690 | 740 | 110 | 790 | 865 | 675 |
| | APR-SEP | 640 | 725 | 780 | 111 | 835 | 920 | 700 |
| Payette R nr Horseshoe Bend | APR-JUL | 1500 | 1710 | 1800 | 110 | 1890 | 2100 | 1640 |
| | APR-SEP | 1580 | 1830 | 1950 | 111 | 2070 | 2320 | 1760 |
| Boise R nr Twin Springs | APR-JUL | 545 | 635 | l 680 | 107 | 725 | 815 | 635 |
| • | APR-SEP | 590 | 690 | 735 | 107 | 780 | 880 | 690 |
| F Boise R at Anderson Ranch Dam | APR-JUL | 450 | 530 | l 565 | 105 | 600 | 680 | 540 |
| | APR-SEP | 475 | 560 | 600 | 103 | 640 | 725 | 580 |
| Mores Ck nr Arrowrock Dam | APR-JUL | 96 | 118 | 135 | 103 | 153 | 181 | 131 |
| | APR-SEP | 99 | 123 | 140 | 102 | 159 | 188 | 137 |
| Boise R nr Boise | APR-JUN | 1130 | 1250 | 1300 | 103 | 1350 | 1470 | 1260 |
| | APR-JUL | 1150 | 1360 | 1450 | 103 | 1540 | 1750 | 1410 |
| | APR-SEP | 1240 | 1460 | 1560 | 102 | 1660 | 1880 | 1530 |

WEISER, PAYETTE, BOISE RIVER BASINS Reservoir Storage (1000 AF) - End of March WEISER, PAYEITE, BOISE RIVER BASINS Watershed Snowpack Analysis - April 1, 2008

| Reservoir | Usable Capacity | *** Usa This Year | able Stora Last Year | ge *** Avg | Watershed | Number of Data Sites | This Year | r as % of Average |
|-----------------------------------------|----------------------|-------------------------|----------------------------|---------------|-------------------------|----------------------------|-----------|--------------------------|
| MANN CREEK | 11.1 | 5.7 | 8.1 | 8.8 | Mann Creek | 2 | 179 | 105 |
| CASCADE | 693.2 | 472.1 | 555.6 | 428.8 | Weiser River | 5 | 217 | 113 |
| DEADWOOD | 161.9 | 68.0 | 111.3 | 91.6 | North Fork Payette | 8 | 185 | 121 |
| ANDERSON RANCH | 450.2 | 156.1 | 344.8 | 262.8 | South Fork Payette | 5 | 156 | 104 |
| ARROWROCK | 272.2 | 238.8 | 257.1 | 204.5 | Payette Basin Total | 14 | 168 | 115 |
| LUCKY PEAK | 293.2 | 183.1 | 258.0 | 162.6 | Middle & North Fork Boi | se 5 | 155 | 96 |
| LAKE LOWELL (DEER FLAT) | 165.2 | 78.9 | 93.7 | 126.9 | South Fork Boise River | 9 | 201 | 110 |
| | | | | | Mores Creek | 5 | 199 | 128 |
| | | | | | Boise Basin Total | 16 | 199 | 113 |
| | | | | | Canyon Creek | 2 | 428 | 170 |
| ======================================= | ======== | | | | | | | |

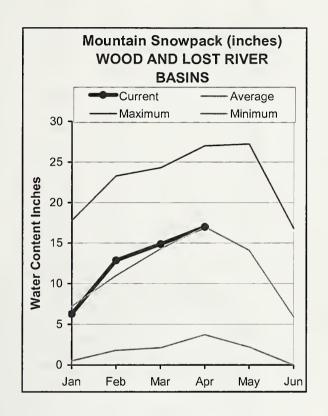
 $[\]star$ 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

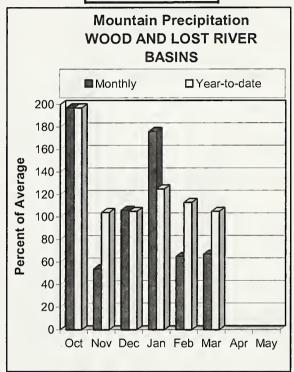
^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

^{(2) -} The value is natural flow - actual flow may be affected by upstream water management.

WOOD and LOST RIVER BASINS APRIL 1, 2008







WATER SUPPLY OUTLOOK

The Wood and Lost River basins snowpack are 100% of average overall. The best snowpack is found in the Canyon Creek drainage at 170% of normal and the lowest snow is in the Big Lost drainage at 93% of average. Despite the storms that brought moisture early to these mountains, some of the SNOTEL sites are still below their seasonal peak snow water content. The streamflow forecasts reflect this pattern. The projected April through July streamflow volumes call for 85-95% of average for these central Idaho streams. The reservoirs are still storing low volumes. Magic is 15% full, 27% of average; Little Wood is 36% full, 56% of average and Mackay is the best at 62% of capacity and 85% of average. The Surface Water Supply Index (SWSI), which combines reservoir storage and forecasted streamflow volumes, indicates marginally adequate water supplies in the Little Wood and Big Lost basins while supplies may be limited in the Little Lost and Big Wood basins.

WOOD AND LOST RIVER BASINS Streamflow Forecasts - April 1, 2008

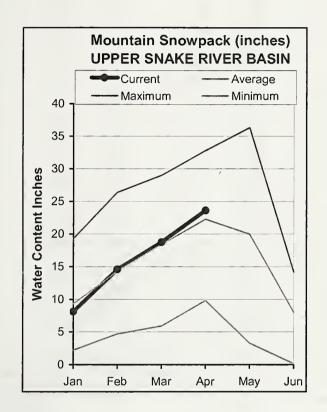
| | | Streamflo | | _ | | | | | |
|-----------------------------------------|----------------------|-----------------|---------------------------|--------------|------------------------------|----------------------------------------------|--------------------------|-------------------|-----------------------------------------------|
| ======================================= | | | | | | onditions ===== | | | |
| Forecast Point | Forecast Period | 90% (1000AF) | 70% (1000AF | 5 | 0% (Most (1000AF) | Exceeding * ===== Probable) (% AVG.) | 30% (1000AF) | 10% (1000AF) | 30-Yr Avg. (1000AF) |
| Big Wood River at Hailey | APR-JUL APR-SEP | 154 173 | 210 235 | | 235 265 | 92 91 | 265 300 | 335 375 | 255 290 |
| Big Wood R ab Magic Reservoir | APR-JUL APR-SEP | 130 140 | 163 176 | | 186 200 | 98 98 | 210 225 | 240 260 | 190 205 |
| Camas Ck nr Blaine | APR-JUL APR-SEP | 55 56 | 74 75 | | 89 90 | 89 89 | 105 106 | 131 132 | 100 101 |
| Big Wood R bl Magic Dam | APR-JUL APR-SEP | 189 200 | 240 255 | | 275 290 | 95 95 | 310 325 | 360 380 | 290 305 |
| Little Wood R ab High Five Creek | APR-JUL APR-SEP | 44 48 | 58 63 | | 69 75 | 89 88 | 81 88 | 100 108 | 78 85 |
| Little Wood R nr Carey | APR-JUL APR-SEP | 58 62 | 71 75 | | 79 84 | 91 89 | 87 93 | 100 106 | 87 94 |
| Big Lost R at Howell Ranch | APR-JUL APR-SEP | 113 127 | 140 157 | | 160 180 | 93 91 | 181 205 | 215 240 | 173 197 |
| Big Lost R bl Mackay Res | APR-JUL APR-SEP | 100 124 | 118 147 | | 131 163 | 93 95 | 144 179 | 162 200 | 141 172 |
| Little Lost R nr Howe | APR-JUL APR-SEP | 20 23 | 25 29 | | 29 34 | 94 87 | 33 39 | 40 47 | 31 39 |
| WOOD AND LO Reservoir Storage (10 | ST RIVER BAS | INS | | -====== | | | LOST RIVER | BASINS | = === ================================ |
| Reservoir | Usable Capacity | | le Storag Last Year | | ======== Water | | Number of Data Sit | This ! | Year as % of |
| MAGIC | 191.5 | 28.4 | 153.3 | 107.1 | | wood ab Hailey | 8 | 162 | 97 |
| LITTLE WOOD | 30.0 | 10.9 | 29.4 | 19.4 | Camas | s Creek | 5 | 521 | 134 |
| A CKAY | 44.4 | 27.7 | 35.2 | 32.7 | Big V | Wood Basin Total | 13 | 206 | 106 |
| | | | | | Fish | Creek | 3 | 395 | 98 |
| | | | | | Litt] | le Wood River | 9 | 279 | 97 |
| | | | | | Big I | ost River | 7 | 204 | 93 |
| | | | | | Litt] | le Lost River | 4 | 170 | 105 |
| | | | | | Birch | n-Medicine Lodge | Cree 4 | 168 | 109 |
| | | | | | Camas | s-Beaver Creeks | 4 | 219 | 106 |
| | | | | | | | | | |

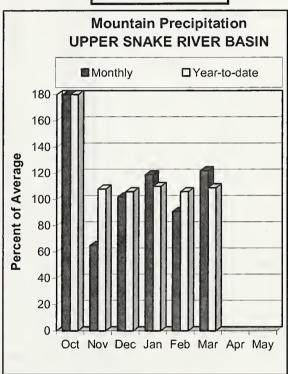
^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels. (2) - The value is natural flow - actual flow may be affected by upstream water management.

UPPER SNAKE BASINS APRIL 1, 2008







WATER SUPPLY OUTLOOK

The Upper Snake region rebounded since last month and relieved many water users. Precipitation above Palisades Reservoir in March was 140% of average but only 116% in the Henrys Fork and Teton basins. The welcomed precipitation helped build the overall snowpack in the region to 106% of average. The snowpack ranges from 93% in the Hoback River to 126% in the Pacific Creek headwaters. The region as a whole has achieved the normal seasonal snow water content peak for early April. The thirsty reservoirs desperately needed an average snow year after last year's hot and dry summer. Currently Jackson Lake and Palisades Reservoir are less than half full at 44% of capacity; 69% of average. On the main stem Snake River, the Blackfoot Reservoir is the least full at 27% of capacity and Grassy Lake and Henrys Lake are near full. The focus has shifted from mountain snowpack accumulation to the snow melt phase and associated peak streamflows. The seasonal streamflow volumes are forecast at near normal levels for most rivers in the Upper Snake Watershed. From now through July, the lowest flow will occur in the Portneuf River at 91% of average while the Teton River, Snake River near Flagg Ranch, Pacific Creek will have the most water and will flow near 110% of average. Calculations for the Snake River above Heise indicate that seasonal water supplies should be adequate (similar to 2006) to fulfill irrigation demands based on the Surface Water Supply Index (SWSI), which combines reservoir storage and projected streamflow volumes. The cooler this summer is the lower the irrigation demands will be, resulting in better reservoir carryover storage next year.

UPPER SNAKE RIVER BASIN Streamflow Forecasts - April 1, 2008

| ======================================= | | | | | | | | |
|-----------------------------------------|----------|----------------|------------|---------------------------------------|---------------|--------------|----------------------------------------|------------|
| | | <<== == | Drier ==== | == Future Co | onditions == | ===== wetter | ====>> | |
| Forecast Point | Forecast | ======= | | - Chance Of E | exceeding * = | | ====== | |
| | Period | 90% | 70% | 50% (Most | Probable) | 30% | 10% | 30-Yr Avg. |
| | | (1000AF) | (1000AF) | (1000AF) | (% AVG.) | (1000AF) | (1000AF) | (1000AF) |
| ====================================== | APR-JUL | 470 | 535 | ===================================== | 102 | 630 | ====================================== | 570 |
| - | APR-SEP | 630 | 710 | 765 | 100 | 825 | 910 | 765 |
| Henrys Fork nr Rexburg | APR-JUL | 1320 | 1460 | 1550 | 99 | 1640 | 1780 | 1560 |
| | APR-SEP | 1730 | 1880 | 1990 | 99 | 2100 | 2250 | 2010 |
| Falls R nr Ashton | APR-JUL | 310 | 350 | 380 | 100 | 410 | 455 | 380 |
| | APR-SEP | 380 | 425 | 460 | 102 | 495 | 550 | 450 |
| Teton R nr Driggs | APR-JUL | 139 | 166 | 185 | 112 | 205 | 235 | 165 |
| | APR-SEP | 171 | 205 | 230 | 110 | 255 | 295 | 210 |
| Teton R nr St. Anthony | APR-JUL | 350 | 400 | 440 | 109 | 480 | 545 | 405 |
| | APR-SEP | 405 | 465 | 510 | 106 | 555 | 630 | 480 |
| Snake River At Flagg Ranch | APR-JUL | 470 | 510 | 535 | 108 | 560 | 600 | 495 |
| | APR-SEP | 520 | 560 | 590 | 108 | 620 | 660 | 545 |
| Snake R Nr Moran | APR-JUL | 750 | 845 | 890 | 109 | 935 | 1030 | 815 |
| | APR-SEP | 815 | 930 | 980 | 108 | 1030 | 1140 | 905 |
| Pacific Ck At Moran | APR-JUL | 149 | 173 | 190 | 111 | 205 | 230 | 171 |
| | APR-SEP | 158 | 183 | 200 | 112 | 215 | 240 | 178 |
| Snake R Nr Alpine | APR-JUL | 2180 | 2400 | 2500 | 106 | 2600 | 2820 | 2370 |
| • | APR-SEP | 2450 | 2730 | 2860 | 105 | 2990 | 3270 | 2730 |
| Greys R Nr Alpine | APR-JUL | 300 | 330 | 350 | 103 | 370 | 400 | 340 |
| • | APR-SEP | 340 | 375 | 400 | 101 | 425 | 460 | 395 |
| Salt R Nr Etna | APR-JUL | 260 | 320 | 360 | 106 | 400 | 460 | 340 |
| | APR-SEP | 325 | 400 | 455 | 108 | 510 | 585 | 420 |
| Snake R nr Irwin | APR-JUL | 3030 | 3350 | 3500 | 105 | 3650 | 3970 | 3330 |
| | APR-SEP | 3460 | 3830 | 4000 | 103 | 4170 | 4540 | 3870 |
| Snake R nr Heise | APR-JUL | 3300 | 3540 | 3700 | 104 | 3860 | 4100 | 3560 |
| | APR-SEP | 3830 | 4110 | 4300 | 103 | 4490 | 4770 | 4160 |
| Willow Ck nr Ririe | APR-JUL | 50 | 65 | 77 | 95 | 90 | 110 | 81 |
| Blackfoot R ab Res nr Henry | APR-JUN | 43 | 60 | 72 | 99 | 86 | 108 | 73 |
| Portneuf R at Topaz | APR-JUL | 56 | 67 | 74 | 91 | 82 | 94 | 81 |
| A | APR-SEP | 72 | 84 | 92 | 92 | 101 | 114 | 100 |
| Snake River at Neelev | APR-JUL | 2230 | 2970 | 3300 | 102 | 3630 | 4370 | 3240 |
| | APR-SEP | 2360 | 3150 | 3510 | 100 | 3870 | 4660 | 3510 |

UPPER SNAKE RIVER BASIN Reservoir Storage (1000 AF) - End of March

UPPER SNAKE RIVER BASIN Watershed Snowpack Analysis - April 1, 2008

| Reservoir | Usable Capacity | *** Usa This | able Stora Last | age *** | Watershed | Number of | | r as % of |
|----------------|----------------------|-----------------|--------------------|---------|--------------------------|--------------|-----|-----------|
| Reservoii | Capacity | Year | Year | Avg | | ata Sites | | Average |
| HENRYS LAKE | 90.4 | 81.3 | 83.7 | 85.5 | Henrys Fork-Falls River | 12 | 174 | 109 |
| ISLAND PARK | 135.2 | 104.3 | 119.0 | 114.6 | Teton River | 8 | 188 | 112 |
| GRASSY LAKE | 15.2 | 13.7 | 12.7 | 12.3 | Henrys Fork above Rexbur | g 20 | 179 | 110 |
| JACKSON LAKE | 847.0 | 349.0 | 636.4 | 486.6 | Snake above Jackson Lake | 9 | 170 | 110 |
| PALISADES | 1400.0 | 640.0 | 1178.6 | 941.5 | Gros Ventre River | 3 | 163 | 106 |
| RIRIE | 80.5 | 42.1 | 53.5 | 41.6 | Hoback River | 5 | 156 | 93 |
| BLACKFOOT | 348.7 | 95.5 | 182.9 | 229.8 | Greys River | 5 | 146 | 100 |
| AMERICAN FALLS | 1672.6 | 1321.2 | 1643.0 | 1443.2 | Salt River | 5 | 160 | 105 |
| | | | | | Snake above Palisades | 28 | 169 | 107 |
| | | | | | Willow Creek | 7 | 283 | 125 |
| | | | | | Blackfoot River | 5 | 236 | 107 |
| | | | | | Portneuf River | 7 | 225 | 105 |
| | | | | | Snake abv American Falls | 49 | 182 | 109 |
| | | | | | | | | |

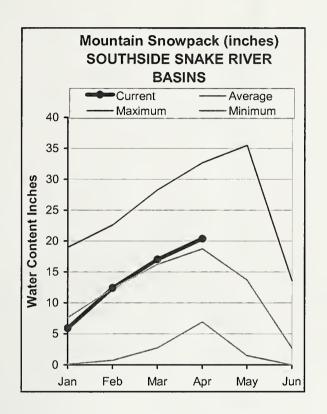
^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

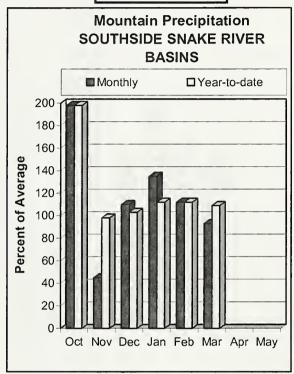
^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

^{(2) -} The value is natural flow - actual flow may be affected by upstream water management.

SOUTHSIDE SNAKE RIVER BASINS APRIL 1, 2008







WATER SUPPLY OUTLOOK

March brought precipitation that was 93% of normal; the first month since November where the precipitation was below normal south of the Snake River. The best snowpack is in the Owyhee basin at 144% of average. The rest of the basin's snowpacks are about 110% of average; this is a blessing compared to last year when the snowpack was 69%. Most of March remained cold and preserved the mountain snowpack. However, some of the lower elevation sites, such as Mud Flat in the Owyhee Basin, started to melt in late March when the air temperatures were above freezing overnight. These warmer temperatures and ripe low-elevation snowpacks caused a few tributaries to flow along with the Owyhee River. Observations from SNOTEL sites, snow surveyors and measurements from the Owyhee aerial marker flight reveal that there is still a lot of snow left in the low elevations and some streams are still frozen. For instance on April 1, even though the snow was melting at Mud Flat (5730 feet), there was 9.0 inches of snow water content; more than double its normal amount. By comparison, in 2006 Mud Flat had 10.9 inches of snow water content on April 1 and last year the snow was melted by March 21st. Current streamflow forecasts call for near normal amounts from April through July. The lowest forecast is at 93% for Oakley Reservoir Inflow. The Owyhee River, Bruneau River and Salmon Falls Creek are predicated to flow at average levels. Reservoir storage is 85% of average in Oakley and Brownlee reservoirs, 52% of average in Salmon Falls and Owyhee reservoirs, and 67% of average in Wildhorse Reservoir. The SWSI, which combines current reservoir storage and projected seasonal streamflow, indicates water supplies should be adequate and similar to 2007 in the Salmon Falls and Oakley basins.

SOUTHSIDE SNAKE RIVER BASINS Streamflow Forecasts - April 1, 2008

| | | | | | | | | ======================================= |
|--------------------------------|--------------------|-----------------|------------|---------------|-------------|--------------|-------------|-----------------------------------------|
| | | <<===== | Drier ==== | == Future Co | nditions = | ===== Wetter | ====>> | |
| Forecast Point | Forecast | | | - Change Of F | branchina t | | | |
| Forecast Point | Period | ====== 90% | 70% | = Chance Of E | | 30% | 10% | 30-Yr Avg. |
| | relica | (1000AF) | (1000AF) | (1000AF) | (% AVG.) | (1000AF) | (1000AF) | (1000AF) |
| | | | ======== | ,, | | | (1000m) | |
| Oakley Reservoir Inflow | APR-JUL | 14.9 | 22 | 27 | 93 | 33 | 43 | 29 |
| • | APR-SEP | 16.8 | 24 | 30 | 94 | 36 | 47 | 32 |
| | | | | ĺ | | | | |
| OAKLEY RESV STORAGE | APR-30 | 32 | 34 | 35 | 85 | 36 | 38 | 41 |
| | MAY-31 | 32 | 35 | 38 | 84 | 41 | 44 | 45 |
| | | | | _ | | | | |
| Salmon Falls Ck nr San Jacinto | APR-JUN | 49 | 63 | 74 | 99 | 86 | 104 | 75 |
| | APR-JUL APR-SEP | 51 54 | 66 71 | 78 | 98 | 91 | 111 | 80 |
| | APR-SEP | 54 | /1 | 83 | 99 | 96 | 118 | 84 |
| SALMON FALLS RESV STORAGE | APR-30 | 43 | 47 | l 50 | 57 | ! 53 | 57 | 88 |
| | MAY-31 | 59 | 67 | 73 | 72 | 79 | 87 | 101 |
| | | | | | | | | |
| Bruneau R nr Hot Springs | APR-JUL | 132 | 176 | 210 | 102 | 245 | 305 | 205 |
| | APR-SEP | 138 | 185 | 220 | 102 | 260 | 320 | 215 |
| | | | | | | | | |
| Owyhee R nr Gold Creek | APR-JUL | 14.0 | 21 | 26 | 104 | 32 | 43 | 25 |
| | APR-SEP | 10.7 | 18.3 | 25 | 104 | 33 | 48 | 24 |
| Andrea Barra Barra | ADD TH | 210 | 215 | 205 | 104 | 105 | 640 | 200 |
| Owyhee R nr Rome | APR-JUL | 210 | 315 | 395 | 104 | 485 | 640 | 380 |
| Owyhee R blw Owyhee Dam | APR-JUL | 81 | 270 | l l 395 | 99 | l 520 | 710 | 400 |
| onflice it bin onflice ball | APR-SEP | 113 | 300 | 425 | 99 | 550 | 735 | 430 |
| | | | - 30 | 123 | | | . 33 | 150 |
| Reynolds Ck at Tollgate | APR-JUL | 6.4 | 7.8 | 8.9 | 109 | 10.0 | 11.8 | 8.2 |
| - | | | | İ | | | | |
| | | | | | | | | |

| SOUTHSIDE SNA Reservoir Storage (100 | SOUTHSIDE SNAKE RIVER BASINS Watershed Snowpack Analysis - April 1, 2008 | | | | | | | |
|-----------------------------------------|-----------------------------------------------------------------------------|-------------------------|------------------------------------------|--------|----------------------|----------------------------|-----|--------------------------------|
| Reservoir | Usable Capacity | *** Usa This Year | able Storage *** Last Year Avg | | Watershed | Number of Data Sites | | r as % of ====== Average |
| OAKLEY | 75.6 | 30.3 | 47.8 | 36.0 | Raft River | 6 | 180 | 111 |
| SALMON FALLS | 182.6 | 36.0 | 84.9 | 70.2 | Goose-Trapper Creeks | 7 | 174 | 110 |
| WILDHORSE RESERVOIR | 71.5 | 31.1 | 55.0 | 46.2 | Salmon Falls Creek | 8 | 185 | 109 |
| OWYHEE | 715.0 | 316.6 | 577.0 | 593.0 | Bruneau River | 8 | 222 | 116 |
| BROWNLEE | 1420.0 | 907.1 | 1175.8 | 1029.5 | Reynolds Creek | 0 | 0 | 0 |
| | | | | | Owyhee Basin Total | 20 | 436 | 144 |

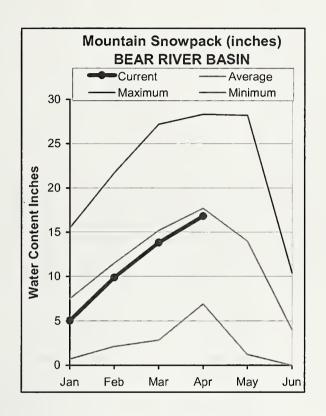
^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

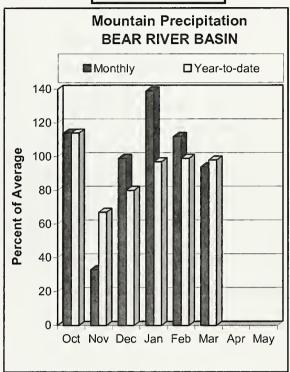
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^{(2) -} The value is natural flow - actual flow may be affected by upstream water management.

BEAR RIVER BASIN APRIL 1, 2008







WATER SUPPLY OUTLOOK

Cool temperatures and near average precipitation in March not only preserved the Bear River's existing snow but also added to it; this brings the snowpack to near average seasonal peak amounts as of April 1. The greatest amounts of snow exist in the Cub basin at 110% of average, while the Smith and Thomas Forks have the least at 91%. The Malad basin, at 108% of average, has almost seven times as much snow as this time last year. The Giveout SNOTEL, upstream of Montpelier Creek Reservoir, has 91% of its average peak snow water; the reservoir is storing 82% of its average amount, 35% of capacity. Current storage in Bear Lake is 396,700 acre-feet which equates to 28% of capacity and 43% of average. This amount is down sharply from a year ago when storage equaled 609,400 acre-feet. Streamflow in the headwaters of the Bear River is forecast for slightly above the average volume. The Bear River at Stewart Dam streamflow forecast decreased this month to 58% of average. The Little Bear River at Paradise is forecast for 107% of average, while the rest of the streams in the area are forecast between 80-92% of average. The surface water supply index which combines current reservoir storage and forecasted streamflow indicates that surface water supplies should be marginally adequate in the Bear Basin. Using this index, expect water supplies better than 2005, and similar to 1993 or 1994. Hopefully good precipitation will continue through the next couple of months decreasing irrigation demand and increasing Bear Lake storage.

BEAR RIVER BASIN

Streamflow Forecasts - April 1, 2008

| | | Streamflo | | _ | | | | | | |
|-------------------------------------|----------------------|-----------------|--------------------|---------|----------------------|----------------------------------|------------|--------------|------------------|------------------------|
| | | | | | | onditions =: | | etter = | | |
| Forecast Point | Forecast Period | 90% (1000AF) | 70% (1000AF) | 50 | 0% (Most (1000AF) | Exceeding * : Probable) (% AVG.) | 30 (100 | % OAF) (| 10% 1000AF) | 30-Yr Avg. (1000AF) |
| | | | | | | | | | | |
| Bear River nr UT-WY State Line | APR-JUL APR-SEP | 97 108 | 111 124 | | 120 135 | 106 108 | ! - | 29 46 | 143 162 | 113 125 |
| Bear River ab Reservoir nr Woodruff | APR-JUL APR-SEP | 98 105 | 123 131 | | 140 148 | 103 104 | ! | 57 65 | 182 191 | 136 142 |
| Big Creek nr Randolph | APR-JUL | 3.0 | 3.9 | | 4.5 | 92 | 5 | .1 | 6.0 | 4.9 |
| Smiths Fork nr Border | APR-JUL APR-SEP | 63 75 | 74 88 | | 82 97 | 80 80 | | 90 06 | 101 119 | 103 121 |
| Bear River at Stewart Dam | APR-JUL APR-SEP | 89 103 | 115 133 | | 135 155 | 58 59 | ! | 56 79 | 191 220 | 234 262 |
| Little Bear River at Paradise | APR-JUL | 35 | 43 | | 49 | 107 | | 55 | 65 | 46 |
| Logan R Abv State Dam Nr Logan | APR-JUL | 90 | 105 | | 115 | 91 | 1 | 26 | 142 | 126 |
| Blacksmith Fk Abv Up&L Dam Nr Hyrum | APR-JUL | 28 | 37 | | 44 | 92 | ! | 51 | 63 | 48 |
| BEAR RIV | ER BASIN | | | -=====: | | | BEAR RIV | ER BASI | ====== N | |
| Reservoir Storage (1000 | | | | | İ | Watershed Si | _ | - | - | |
| Reservoir | Usable Capacity | | le Storage Last | |] | rshed | | Number of | This | Year as % of |
| | | Year | Year | Avg | | | | ta Site | | Yr Average |
| BEAR LAKE | 1421.0 | 396.7 | 609.4 | 923.8 | | ns & Thomas 1 | | 4 | 124 | 91 |
| MONTPELIER CREEK | 4.0 | 1.4 | 2.6 | 1.7 | Bear | River ab WY | -ID line | 12 | 162 | 99 |
| | | | | | Montr | pelier Creek | | 2 | 155 | 95 |
| | | | | | Mink | Creek | | 4 | 223 | 110 |
| | | | | | Cub F | liver | | 3 | 217 | 110 |
| | | | | | Bear | River ab ID | -UT line | 26 | 182 | 103 |
| | | | | | Malad | d River | | 3 | 690 | 108 |

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

^{(2) -} The value is natural flow - actual flow may be affected by upstream water management.

upstream reservoirs or diversions. These values are referred to as natural, unregulated or adjusted flows. To make these adjustments, changes in reservoir storage, diversions, and inter-basin transfers are added Streamflow Adjustment List for All Forecasts Published in Idaho Water Supply Outlook Report: streamflow forecasts are projections of runoff volumes that would occur without influences from or subtracted from the observed (actual) streamflow volumes. The following list documents the adjustments made for each forecast point. (Revised Nov. 2007).

Panhandle River Basins

Kootenai R at Leonia, ID

Boundary Ck nr Porthill, ID - No Corrections Smith Creek nr Porthill, ID - No Corrections Movie R at Eastport, ID - No Corrections + Lake Koocanusa (Storage Change) Clark Fork R at Whitehorse Rapids, ID

+ Hungry Horse (Storage Change)

+ Flathead Lake (Storage Change)

+ Noxon Rapids Resv (Storage Change)

Pend Oreille Lake Inflow, ID

+ Pend Oreille R at Newport, WA

+ Hungry Horse (Storage Change)

+ Flathead Lake (Storage Change)

+ Pend Oreille Lake (Storage Change) + Noxon Rapids (Storage Change

+ Priest Lake (Storage Change)

Priest R nr Priest R, ID

+ Priest Lake (Storage Change)

NF Coeur d'Alene R at Enaville, ID - No Corrections St. Joe R at Calder, ID - No Corrections

Spokane R nr Post Falls, ID

+ Coeur d'Alene Lake (Storage Change)

Spokane R at Long Lake, WA

+ Coeur d'Alene Lake (Storage Change)

+ Long Lake, WA (Storage Change)

Clearwater River Basin

Selway R nr Lowell - No Corrections Lochsa R nr Lowell - No Corrections

+ Clearwater R nr Peck, ID Dworshak Resv Inflow, ID

- Clearwater R at Orofino, ID

+ Dworshak Resv (Storage Change)

Clearwater R at Orofino, ID - No Corrections Clearwater R at Spalding, ID

+ Dworshak Resv (Storage Change)

Salmon River Basin

MF Salmon R at MF Lodge, ID - No Corrections Salmon R at White Bird, ID - No Corrections Salmon R at Salmon, ID - No Corrections Lemhi R nr Lemhi, ID - No Corrections

Weiser, Payette, Boise River Basing

SF Payette R at Lowman, ID - No Corrections Weiser R nr Weiser, ID - No Corrections Deadwood Resv Inflow, ID

+ Deadwood R blw Deadwood Resv nr Lowman

Lake Fork Payette R nr Mccall, ID – No Corrections + Deadwood Resv (Storage Change)

+ Cascade Resv (Storage Change) NF Payette R at Cascade, ID

+ Payette Lake (Storage Change)

NF Payette R nr Banks, ID

+ Cascade Resv (Storage Change)

+ Payette Lake (Storage Change)

Payette R nr Horseshoe Bend, ID

+ Cascade Resv (Storage Change)

+ Deadwood Resv (Storage Change)

+ Payette Lake (Storage Change)

Boise R nr Twin Springs, ID - No Corrections SF Boise R at Anderson Ranch Dam, ID

+ Anderson Ranch Resv (Storage Change)

Boise R nr Boise, 1D

+ Anderson Ranch Resv (Storage Change)

+ Arrowrock Resv (Storage Change)

+ Lucky Peak Resv (Storage Change)

Wood and Lost River Basins

Big Wood R at Hailey, ID - No Corrections

Big Wood R abv Magic Resv, ID

+ Big Wood R nr Bellevue, ID + Willow Ck Camas Ck nr Blaine - No Corrections

Big Wood R blw Magic Dam nr Richfield, ID

+ Magic Resv (Storage Change)

Little Wood R aby High Five Ck, ID - No Corrections Little Wood R nr Carey, ID

+ Little Wood Resv (Storage Change)

Big Lost R at Howell Ranch, ID - No Corrections

Big Lost R blw Mackay Resv nr Mackay, ID + Mackay Resv (Storage Change)

Upper Snake River Basin

Little Lost R blw Wet Ck nr Howe, ID - No Corrections

Henrys Fork nr Ashton, ID

+ Henrys Lake (Storage Change)

+ Island Park Resv (Storage Change)

Henrys Fork nr Rexburg, ID

+ Island Park Resv (Storage Change) + Henrys Lake (Storage Change)

+ Grassy Lake (Storage Change)

+ Diversions from Henrys Fk btw St. Anthony to Rexburg, ID + Diversions from Henrys Fk btw Ashton to St. Anthony, ID

+ Diversions from Falls R abv nr Ashton, IL

+ Diversions from Falls R nr Ashton to Chester, ID

+ Grassy Lake (Storage Change) Falls R nr Ashton, ID

+ Diversions from Falls R abv nr Ashton, ID

Teton R nr Driggs, ID - No Corrections

Teton R nr St. Anthony, ID

- Cross Cut Canal into Teton R

+ Sum of Diversions for Teton R abv St. Anthony, ID

Snake R nr Moran, WY

+ Jackson Lake (Storage Change)

Pacific Ck at Moran, WY - No Corrections

Snake R abv Palisades, WY

+ Jackson Lake (Storage Change)

Greys R aby Palisades, WY - No Corrections Salt R abv Palisades, WY - No Corrections

+ Jackson Lake (Storage Change) Snake R nr Irwin, 1D

+ Palisades Resv (Storage Change)

Snake R nr Heise, 1D

+ Palisades Resv (Storage Change) + Jackson Lake (Storage Change)

Willow Ck nr Ririe, 1D

+ Ririe Resv (Storage Change)

+ Blackfoot Reservoir releases Blackfoot Resvervoir Inflow, ID

Portneuf R at Topaz, ID - No Corrections + Blackfoot Resv (Storage Change

Snake R at Neeley, 1D

+ Snake R at Neeley (observed)

+ All Corrections made for Henrys Fk nr Rexburg, ID

+ Jackson Lake (Storage Change)

+ Palisades Resv (Storage Change)

+ Diversions from Snake R btw Heise and Shelly

+ Diversions from Snake R btw Shelly and Blackfoot

Southside Snake River Basing

Oakley Resv Inflow, 1D

+ Goose Ck aby Trapper Ck + Trapper Ck nr Oakley

Salmon Falls Ck nr San Jacinto, NV - No Corrections Bruneau R nr Hot Springs, ID - No Corrections

Owyhee R nr Gold Ck, NV

+ Wildhorse Resv (Storage Change)

Owyhee R nr Rome, OR - No Corrections Owyhee R blw Owyhee Dam, OR

+Owyhee R blw Owyhee Dam, OR (observed)

+ Owyhee Resv (Storage Change)

+ Diversions to North and South Canals Snake R at King Hill, ID - No Corrections

Snake R nr Murphy, ID - No Corrections Snake R at Weiser, ID - No Corrections Snake R at Hells Canyon Dam, ID

+ Brownlee Resv (Storage Change)

Bear R abv Resv nr Woodruff, UT - No Corrections Bear R nr UT-WY Stateline, UT - No Corrections Smiths Fork nr Border, WY - No Corrections Bear R blw Stewart Dam nr Montpelier, ID

+ Bear R blw Stewart Dam

+ Rainbow Inlet Canal

Reservoir Capacity Definitions (Units in 1,000 Acre-Feet, KAF)

Different agencies use various definitions when reporting reservoir capacity and contents. Reservoir storage terms include dead, inactive, active, and surcharge storage. This table lists these volumes for reservoir storage. In most cases, NRCS reports usable storage, which includes active and inactive each reservoir, and defines the storage volumes NRCS uses when reporting capacity and current storage. (Revised Nov. 2007)

| NRCS Capacity Includes | Active | Active | Active | Dead+Inactive+Active | Inactive+Active | Dead+Inactive+Active | Inactive+Active | A 26** | Transfer A stime | // Inactive+Active | Inactive+Active | Active | Inactive+Active | Inactive+Active | Active | Active | Active | Active | Active+Surcharge | Active | Active | Dead+Inactive+Active | Active | Active | Active | | Active | Active+Inactive | Active | Active | Inactive+Active | | Active+Inactive: includes 119 that | can be released Dead+Active |
|----------------------------------|----------------------------------|---------|---------|----------------------|-----------------|----------------------|------------------------------|-----------------------------|------------------|--------------------|-----------------|-----------|-----------------|-----------------|-----------------------|--------|--------|----------------------------------|------------------|-------------|---------|----------------------|--------|-----------|----------------|------------------------|--------|-----------------|-----------|--------|-----------------|------------------|------------------------------------|--------------------------------|
| e NRCS Capacity | 3451.0 | 1791.0 | 335.0 | 1561.3 | 238.5 | 119.3 | 3468.0 | = | 1.11 | 161.0 | 450.1 | 272.2 | 293.2 | 165.2 | 191.5 | 30.0 | 44.4 | 90.4 | 135.2 | 15.2 | 847.0 | 1400.0 | 80.5 | 348.7 | 1672.6 | | 75.6 | 182.6 | 71.5 | 715.0 | 1420.0 | | 1421.0 | 4.0 |
| Surcharge Storage | 1 | 1 | 1 | ; | 1 | : | ; | | : | ! | | 1 | 13.80 | : | ١ | : | ; | ; | 7.90 | 1 | 1 | 1 | 10.00 | 1 | 1 | | : | : | 1 | ; | 1 | | I | 1 |
| Active S Storage Stor | 3451.00 | 1791.00 | 335.00 | 1042.70 | 225.00 | 71.30 | 2016.00 | - | 01:11 | 046.30 | 413.10 | 272.20 | 264.40 | 159.40 | 191.50 | 30 00 | 44.37 | 90.40 | 127.30 | 15.18 | 847.00 | 1200.00 | 80.54 | 348.73 | 1672.60 | | 75.60 | 182.65 | 71.50 | 715.00 | 975.30 | | 1302.00 | 3.84 |
| Inactive Storage | ŀ | ! | : | 112.40 | 13.50 | 28.00 | 1452.00 | 200 | 17.0 | 40.70 | 37.00 | 1 | 28.80 | 5.80 | 1 | } | ; | ; | ; | i | ; | 155.50 | 00.9 | 1 | 1 | | : | 5.00 | ; | : | 444.70 | | 5.0 MAF 119.0 | ŀ |
| Sto | 39.73 | Unknown | Unknown | 406.20 | : | 20.00 | 1 | tte Basins | 1.01 | ! | 24.90 | 1 | : | 7.90 | <u>IIS</u> Unknown | ; | 0.13 | -1 | 0.40 | : | Unknown | 44.10 | 4.00 | : | 1 | asins | 0 | 48.00 | ì | 406.83 | 0.45 | | 5.0 MA | 0.21 |
| Basin/ Dead Reservoir Storage | Panhandle Region Hungry Horse | | s | Pend Oreille | Coeur d'Alene | Pricst Lake | Clearwater Basin Dworshak | Weiser/Boise/Payette Basins | Cogodo | Dasdwood | Anderson Ranch | Arrowrock | Lucky Peak | Lake Lowell | Wood/Lost Basins | Vood | Mackay | Upper Snake Basin Henrys Lake | Island Park | Grassy Lake | 0 | Palisades | Ririe | Blackfoot | American Falls | Southside Snake Basins | Oakley | Salmon Falls | Wildhorse | Owyhee | Brownlee | Bear River Basin | Bear Lake | Montpelier Creek |

Interpreting Water Supply Forecasts

without any upstream influences. Water users need to know what the different forecasts represent if otherwise specified, all streamflow forecasts are for streamflow volumes that would occur naturally they are to use the information correctly when making operational decisions. The following is an Each month, five forecasts are issued for each forecast point and each forecast period. Unless explanation of each of the forecasts. 90 Percent Chance of Exceedance Forecast. There is a 90 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 10 percent chance that the actual streamflow volume will be less than this forecast value. 70 Percent Chance of Exceedance Forecast. There is a 70 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 30 percent chance that the actual streamflow volume will be less than this forecast value. 50 Percent Chance of Exceedance Forecast. There is a 50 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 50 percent chance that the actual streamflow volume will be less than this forecast value. Generally, this forecast is the middle of the range of possible streamflow volumes that can be produced given current conditions. 30 Percent Chance of Exceedance Forecast. There is a 30 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 70 percent chance that the actual streamflow volume will be less than this forecast value. 10 Percent Chance of Exceedance Forecast. There is a 10 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 90 percent chance that the actual streamflow volume will be less than this forecast value. *Note: There is still a 20 percent chance that actual streamflow volumes will fall either below the 90 percent exceedance forecast or above the 10 percent exceedance forecast. These forecasts represent the uncertainty inherent in making streamflow predictions. This uncertainty may include sources such as: unknown future weather conditions, uncertainties associated with the various prediction methodologies, and the spatial coverage of the data network in a given basin.

chance of exceedance forecast to the 30-year average streamflow; values above 100% denote when the comparison. The average is based on data from 1971-2000. The % AVG. column compares the 50% 30-Year Average. The 30-year average streamflow for each forecast period is provided for 50% chance of exceedance forecast would be greater than the 30-year average streamflow.

AF - Acre-feet, forecasted volume of water are typically in thousands of acre-feet.

corresponding to the level of risk they are willing to accept in order to minimize the negative impacts These forecasts are given to users to help make risk-based decisions. Users can select the forecast of having more or less water than planned for.

To Decrease the Chance of Having Less Water than Planned for

reduce the risk of .having less water than planned for, users can base their operational decisions on one A user might determine that making decisions based on a 50 percent chance of exceedance forecast is too much risk to take (there is still a 50% chance that the user will receive less than this amount). To of the forecasts with a greater chance of being exceeded such as the 90 or 70 percent exceedance

To Decrease the Chance of Having More Water than Planned for

A user might determine that making decisions based on a 50 percent chance of exceedance forecast is too much risk to take (there is still a 50% chance that the user will receive more than this amount). To reduce the risk of having more water than planned for, users can base their operational decisions on one of the forecasts with a lesser chance of being exceeded such as the 30 or 10 percent exceedance

Using the forecasts - an Example

Using the 50 Percent Exceedance Forecast. Using the example forecasts shown below, there is a 50% chance that actual streamflow volume at the Boise River near Twin Springs will be less than 685 KAF between April 1 and July 31. There is also a 50% chance that actual streamflow volume will be greater han 685 KAF.

problems (such as irrigated agriculture), users might want to plan on receiving 610 KAF (from the 70 Using the 90 and 70 Percent Exceedance Forecasts. If an unexpected shortage of water could cause percent exceedance forecast). There is a 30% chance of receiving less than 610 KAF. Alternatively, if users determine the risk of using the 70 percent exceedance forecast is too great, then they might plan on receiving 443 KAF (from the 90 percent exceedance forecast). There is 10% chance of receiving less than 443 KAF.

problems (such as operating a flood control reservoir), users might plan on receiving 760 KAF (from Using the 30 or 10 Percent Exceedance Forecasts. If an unexpected excess of water could cause the 30 percent exceedance forecast). There is a 30% chance of receiving more than 760 KAF. Alternatively, if users determine the risk of using the 30 percent exceedance forecast is too great, then they might plan on receiving 927 KAF (from the 10 percent exceedance forecast). There is a 10% chance of receiving more than 927 KAF.

Users could also choose a volume in between any of these values to reflect their desired risk level.

| | | | Weiser, Payetta Streamflow For | Weiser, Payette, Boise River Basins Streamflow Forecasts – January 2006 | ns 106 | | | |
|-----------------------------------|--------------------|----------|-----------------------------------|----------------------------------------------------------------------------|--------------------------------|----------|----------|------------|
| Forecast Point | Forecast Period | %06 | 70% | —————————————————————————————————————— | Chance of Exceeding * ==== 50% | 30% | 10% | 30-Yr Avg. |
| | | (1000AF) | (1000AF) | (1000 AF) | (1000 AF) (% AVG.) | (1000AF) | (1000AF) | (1000AF) |
| SF PAYETTE RIVER at Lowinan | APR-JUL | 329 | 414 | 471 | 109 | 528 | 613 | 432 |
| | APR-SEP | 369 | 459 | 521 | 107 | 583 | 673 | 488 |
| BOISE RIVER near Twin Springs (1) | | 443 | 610 | 685 | 109 | 760 | 927 | 631 |
| | APR-SEP | 495 | 029 | 750 | 109 | 830 | 1005 | 069 |

^{*90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table

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